December 22, 2014

Mr. James Hitzeroth Environmental Manager Republic Services, Inc. 26W580 Schick Road Hanover Park, Illinois 60103

Subject: Zion Surface Emissions Monitoring Report – Fourth Quarter 2014

Zion Landfill Site 1 (Phases A and B) and Old Site 2

Zion, Illinois

CEC Project 140-610

Dear Mr Hitzeroth:

Civil & Environmental Consultants, Inc. (CEC) is pleased to present the information pertaining to the Fourth Quarter 2014 surface emissions monitoring (SEM) conducted at the Zion Site 1 Phase A and B and Old Site 2 Landfill on December 18, 2014. The monitoring event was conducted in accordance with (1) regulations set forth in the New Source Performance Standard (NSPS), 40 CFR 60.755 (c) and (d); and (2) 40 CFR 60, Appendix A Method 21, promulgated by the United States Environmental Protection Agency (USEPA).

A Photovac Micro flame ionization detector I/S (FID) was used to perform the emissions monitoring. The FID was calibrated prior to use, meeting Method 21 compliance requirements. Calibration logs were completed by the field technician performing the work, and are included in Attachment A

The SEM was started by the CEC technician at 7:45 AM and was concluded at 10:40 AM. The sky was partly cloudy with East winds at approximately 8 mph. The high temperature for the location was 70 degrees Fahrenheit. There were no readings greater than 500 ppm above background measurements detected during this monitoring event.

If you have questions or need clarifications, please call Greg Komperda at (630) 432-0999.

Very truly yours,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Gregory Komperda

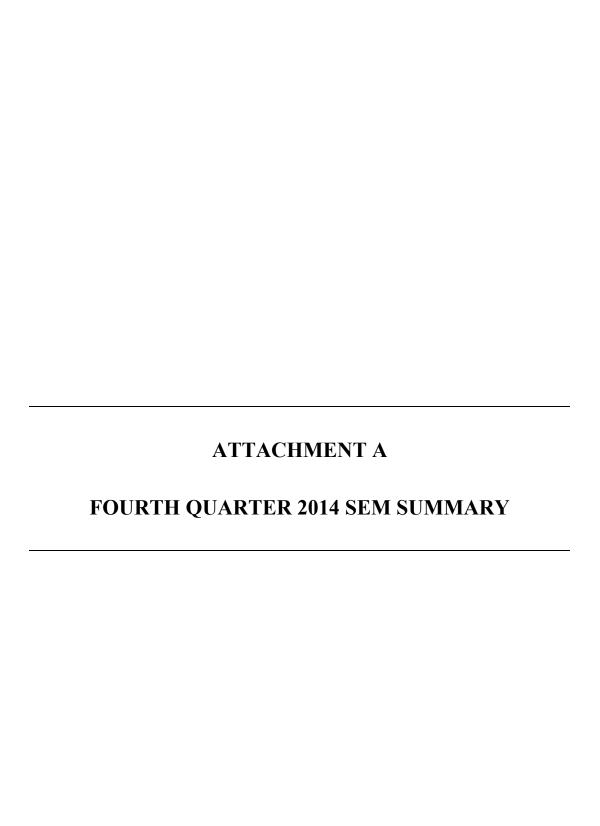
Field Services Manager

Beau Harp, P.G.

Principal

Attachment A: Fourth Quarter 2014 SEM Summary

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CALIBRATION PRECISION TEST RECORD

LANDFILL NAME:		Zion		DATE:	12/18/2014
EXPIRATION DATE (3	MOS.):		_		
TIME:	8:15 AM				
INSTRUMENT MAKE:	PHOTO VAC	MOD	EL: Micro FID	S/N:	C2WD307
MEASUREMENT #1:					
	Meter Reading for	Zero Air:		n (1)	
	Meter Reading for	Calibration Gas:	499.5 _ ppn	n (2)	
MEASUREMENT #2:					
	Meter Reading for	Zero Air:	0.0ppn	n (3)	
	Meter Reading for	Calibration Gas:		n (4)	
MEASUREMENT #3:					
	Meter Reading for	Zero Air:	0.0ppn	n (5)	
	Meter Reading for	Calibration Gas:		n (6)	
CALCULATE PRECISIO	ON:				
[500 -	(2)] + [500 - (4)] +	[500 - (6)]	$-X \frac{1}{500}X - X$	100	
	=	0.03	% (must be less	than 10%)	
PERFORMED BY:	Jason	Vesper			

RESPONSE TIME TEST RECORD

LANDFILL NAME:	Zion				
DATE:	12/18/2014				
TIME:	8:25 AM				
INSTRUMENT MAKE:	PHOTO VAC MODEL: Micro FID	S/N: <u>C2WD307</u>			
MEASUREMENT #1:					
	Stabilized Reading Using Calibration Gas:	489.1 ppm			
	90% of the Stabilized Reading:	440.2 ppm			
	Time to Reach 90% of Stabilized reading After switching from Zero Air to Calibration Gas	4seconds (1)			
MEASUREMENT #2:					
	Stabilized Reading Using Calibration Gas:	492.1 ppm			
	90% of the Stabilized Reading:	442.9 ppm			
	Time to Reach 90% of Stabilized Reading After switching from Zero Air to Calibration Gas				
MEASUREMENT #3:					
	Stabilized Reading Using Calibration Gas:	<u>491.9</u> ppm			
	90% of the Stabilized Reading:	442.7 ppm			
	Time to Reach 90% of Stabilized Reading After switching from Zero Air to Calibration Gas				
CALCULATE RESPONS	SE TIME: $\frac{(1) + (2) + (3)}{3}$	_			
	= <u>3.3</u> SECONDS (M	IUST BE LESS THAN 30 SECC			
PERFORMED BY:	Jason Vesper				

CALIBRATION PROCEDURE AND BACKGROUND DETERMINATION REPORT

LAN	DFILL NAME:			Zion		
INST	RUMENT MAKE: P	HOTO VAC	MODEL: Mi	icro FID	S/N:_	C2WD307
<u>Calib</u>	ration Procedure					
1.	Allow instrument to	internally zero	o itself while	introducing	zero air.	
2.	Introduce the calibra Stab	ntion gas into t e reading =	-	n		
3.	Adjust meter to read	500 ppm.				
<u>Back</u>	ground Determination	Procedure				
1.	Upwind Reading (h	ghest in 30 sec	conds):		0.0	ppm (1)
2.	Downwind Reading	(highest in 30	seconds):		0.0	ppm (2)
		Calculate Bacl	kground Valu		$\frac{1) + (2)}{2}$	
	Ва	ckground =	0.0 ppr	n		
	PERFORMED BY:	Jason Ve	sper	TIME: <u>8</u>	:35 AM	
					DATE:	12/18/2014